Sets `FIRST()` and `FOLLOW()`, and flag `nullable` - Examples

Example 1: Consider the following grammar. Compute *nullable* and the FIRST and FOLLOW sets for the nonterminals S and B in the grammar:

    0. $S' ::= S \$$
    1. $S ::= aBc$
    2. $B ::= b$
    3. $B ::= \varepsilon$

Symbol	nullable	FIRST	FOLLOW
S	**false**	**a**	**$**
B	**true**	**b**	**c**

Example 2: Consider the following grammar. Compute *nullable* and the FIRST and FOLLOW sets for the non-terminals S, A and B in the grammar:

    0. $S' ::= S \$$ ($\$$ represents end-of-file)
    1. $S ::= A\ B$
    2. $S ::= c$
    3. $A ::= a$
    4. $A ::= \varepsilon$
    5. $B ::= b$
    6. $B ::= B\ b$

Symbol	nullable	FIRST	FOLLOW
S	**no**	**a, b, c**	**$**
A	**yes**	**a**	**b**
B	**no**	**b**	**b, $**